



SEQUENCE LISTING

<110> Braun, Jonathan  
Wei, Bo  
Forbes, Ashley

<120> Methods of Diagnosing and Treating  
Crohn's Disease Using Pseudomonas Antigens

<130> P-PM 4968

<140> US 09/976,451

<141> 2001-10-12

<150> US 60/240,347

<151> 2000-10-13

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gcg	ttc	gtc	gac	aat	cga	ctg	att	ctg	gtg	aag	atc	gcg	gcc	cgt	atc	96
Ala	Phe	Val	Asp	Asn	Arg	Leu	Ile	Leu	Val	Lys	Ile	Ala	Ala	Arg	Ile	
			20					25						30		

acc	ggg	tgc	cgc	tcc	cgc	gcc	gaa	gac	gtg	gtg	cag	gac	gcc	tac	ttc	144
Thr	Gly	Cys	Arg	Ser	Arg	Ala	Glu	Asp	Val	Val	Gln	Asp	Ala	Tyr	Phe	
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cgg	ctg	cag	tcg	gcg	ccg	acc	atc	acc	tca	tcg	ttc	aag	gcc	caa	ctg	192
Arg	Leu	Gln	Ser	Ala	Pro	Thr	Ile	Thr	Ser	Ser	Phe	Lys	Ala	Gln	Leu	
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agt	tat	ctg	ttt	cag	atc	gta	cgc	aac	ctg	gcg	atc	gat	cat	tac	cgc	240
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 Lys Gln Ala Leu Glu Leu Lys Tyr Ser Gly Thr Glu Glu Glu Gly Leu  
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aat gtg gtt att cac ggc gct tca ccg gaa acc tcg cac atc aat ttc 336  
 Asn Val Val Ile His Gly Ala Ser Pro Glu Thr Ser His Ile Asn Phe  
                     100                    105                    110

aac acc ctg gaa aac atc gcc gac gcc ctg acg caa ctg ccc cag cgc 384  
 Asn Thr Leu Glu Asn Ile Ala Asp Ala Leu Thr Gln Leu Pro Gln Arg  
                     115                    120                    125

acc cgc tac gcg ttc gag atg tac cgc ttg cat ggc gtg ccg caa aaa 432  
 Thr Arg Tyr Ala Phe Glu Met Tyr Arg Leu His Gly Val Pro Gln Lys  
                     130                    135                    140

gac atc gcc aag gag ctt ggg gtg tct ccg acc ttg gtg aac ttc atg 480  
 Asp Ile Ala Lys Glu Leu Gly Val Ser Pro Thr Leu Val Asn Phe Met  
                     145                    150                    155                    160

att cgc gat gcg ctg gtg cat tgc cgc aag gtg tcg ggc agt cat agc 528  
 Ile Arg Asp Ala Leu Val His Cys Arg Lys Val Ser Gly Ser His Ser  
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 Thr Gly Cys Arg Ser Arg Ala Glu Asp Val Val Gln Asp Ala Tyr Phe  
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 Arg Leu Gln Ser Ala Pro Thr Ile Thr Ser Ser Phe Lys Ala Gln Leu  
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 Ser Tyr Leu Phe Gln Ile Val Arg Asn Leu Ala Ile Asp His Tyr Arg  
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 Lys Gln Ala Leu Glu Leu Lys Tyr Ser Gly Thr Glu Glu Glu Gly Leu  
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 Asn Val Val Ile His Gly Ala Ser Pro Glu Thr Ser His Ile Asn Phe  
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 Thr Arg Tyr Ala Phe Glu Met Tyr Arg Leu His Gly Val Pro Gln Lys  
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Asp Ile Ala Lys Glu Leu Gly Val Ser Pro Thr Leu Val Asn Phe Met  
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 Thr Gly Cys Arg Ser Thr Ala Glu Asp Val Val Gln Asp Ala Phe Phe  
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 50 55 60  
 Ser Tyr Leu Phe Gln Ile Val Arg Asn Leu Ala Ile Asp His Tyr Arg  
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 Lys Gln Ala Leu Glu Gln Lys Tyr Ser Gly Pro Glu Glu Glu Gly Leu  
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 Asn Val Val Ile Gln Gly Ala Ser Pro Glu Thr Ser His Ile Asn Phe  
 100 105 110  
 Ser Thr Leu Glu Asn Ile Ala Asp Ala Leu Thr Glu Leu Pro Ser Arg  
 115 120 125  
 Thr Arg Tyr Ala Phe Glu Met Tyr Arg Leu His Gly Val Pro Gln Lys  
 130 135 140  
 Asp Ile Ala Lys Glu Leu Gly Val Ser Pro Thr Leu Val Asn Phe Met  
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Arg Gly Lys Leu Leu Gln Thr Ala Ala His Leu Phe Arg Asn Lys Gly	
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ttc gag cgc acc acc gtg cga gat ctg gcc agc gcc gtg ggc atc cag	144
Phe Glu Arg Thr Thr Val Arg Asp Leu Ala Ser Ala Val Gly Ile Gln	
35 40 45	
tcc ggc agc atc ttt cat cac ttc aag agc aag gat gag ata ttg cgt	192
Ser Gly Ser Ile Phe His His Phe Lys Ser Lys Asp Glu Ile Leu Arg	
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gcc gtg atg gag gaa acc acc cat tac aac acc gcg atg atg cgc gct	240
Ala Val Met Glu Glu Thr Thr His Tyr Asn Thr Ala Met Met Arg Ala	
65 70 75 80	
tca ctg gaa gaa gcg agc acg gtg cgc gaa cgc gtg ctg gcg ctg atc	288
Ser Leu Glu Glu Ala Ser Thr Val Arg Glu Arg Val Leu Ala Leu Ile	
85 90 95	
cgc tgc aag ttg cag tgc atc atg ggc ggc agt ggc gag gcc atg gcg	336
Arg Cys Lys Leu Gln Ser Ile Met Gly Gly Ser Gly Glu Ala Met Ala	
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gtg ctg gtc tac gaa tgg cgc tgc ctg tgc gcc gaa ggc cag gcg cac	384
Val Leu Val Tyr Glu Trp Arg Ser Leu Ser Ala Glu Gly Gln Ala His	
115 120 125	
gtg ctg gcc ctg cgt gac gtg tat gag cag atc tgg ttg cag gta ctg	432
Val Leu Ala Leu Arg Asp Val Tyr Glu Gln Ile Trp Leu Gln Val Leu	
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Gly Glu Ala Lys Ala Ala Gly Tyr Ile Arg Gly Asp Val Phe Ile Thr	
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cgg cgc ttc ctc acc ggg gcc tta tcc tgg acc acc acc tgg ttt cgt	528
Arg Arg Phe Leu Thr Gly Ala Leu Ser Trp Thr Thr Thr Trp Phe Arg	
165 170 175	
gcc caa ggc agc ctg acc ctt gag gag ttg gcc gaa gag gcc ttg ttg	576
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<212> PRT

<213> P. fluorescens

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Ser Gly Ser Ile Phe His His Phe Lys Ser Lys Asp Glu Ile Leu Arg
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Ala Val Met Glu Glu Thr Thr His Tyr Asn Thr Ala Met Met Arg Ala
65           70           75           80
Ser Leu Glu Glu Ala Ser Thr Val Arg Glu Arg Val Leu Ala Leu Ile
          85           90           95
Arg Cys Lys Leu Gln Ser Ile Met Gly Gly Ser Gly Glu Ala Met Ala
          100          105          110
Val Leu Val Tyr Glu Trp Arg Ser Leu Ser Ala Glu Gly Gln Ala His
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Val Leu Ala Leu Arg Asp Val Tyr Glu Gln Ile Trp Leu Gln Val Leu
          130          135          140
Gly Glu Ala Lys Ala Ala Gly Tyr Ile Arg Gly Asp Val Phe Ile Thr
145           150           155           160
Arg Arg Phe Leu Thr Gly Ala Leu Ser Trp Thr Thr Thr Trp Phe Arg
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Met Val Leu Lys Ser Asp
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<212> PRT

<213> P. aeruginosa

<400> 7

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Thr Gly Cys Arg Ser Arg Ala Glu Asp Val Val Gln Asp Ala Phe Phe
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Arg Leu Gln Ser Ala Pro Gln Ile Thr Ser Ser Glu Lys Ala Gln Leu
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Asn	Val	Val	Ile	Gln	Gly	Ala	Ser	Pro	Glu	Thr	Ser	His	Ile	Asn	Tyr
			100					105					110		
Ala	Thr	Leu	Glu	His	Ile	Ala	Asp	Ala	Leu	Thr	Glu	Leu	Pro	Lys	Arg
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Thr	Arg	Tyr	Ala	Phe	Glu	Met	Tyr	Arg	Leu	His	Gly	Val	Pro	Gln	Lys
	130					135					140				
Asp	Ile	Ala	Lys	Glu	Leu	Gly	Val	Ser	Pro	Thr	Leu	Val	Asn	Phe	Met
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Ile	Arg	Asp	Ala	Leu	Val	His	Cys	Arg	Lys	Val	Thr	Ala	Glu	Arg	Gln
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 <213> P. putida

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Thr	Gly	Cys	Arg	Ser	Arg	Ala	Glu	Asp	Val	Val	Gln	Asp	Ala	Phe	Phe
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Arg	Leu	Ser	Ala	Ala	Pro	Gln	Ile	Thr	Ser	Ser	Phe	Lys	Ala	Gln	Leu
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Ser	Tyr	Leu	Phe	Gln	Ile	Val	Arg	Asn	Leu	Ala	Ile	Asp	His	Tyr	Arg
65					70					75					80
Lys	Gln	Ala	Met	Glu	Leu	Lys	Tyr	Ser	Gly	Ser	Glu	Glu	Glu	Gly	Leu
			85						90					95	
Asn	Val	Val	Ile	Gln	Asn	Ala	Ser	Pro	Glu	Ala	Thr	His	Ile	Asn	Leu
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Ala	Ala	Leu	Asp	Glu	Ile	Ala	Glu	Ala	Leu	Asn	Glu	Leu	Pro	Gln	Arg
		115					120					125			
Thr	Arg	Ser	Ala	Phe	Glu	Met	Tyr	Arg	Leu	His	Gly	Val	Pro	Gln	Lys
	130					135					140				
Asp	Ile	Ala	Lys	Glu	Leu	Gly	Val	Ser	Pro	Thr	Leu	Val	Asn	Phe	Met
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Arg	Ala	Glu	Asp	Val	Val	Gln	Asp	Ala	Phe	Phe	Arg	Leu	Gln	Ser	Ala
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Pro	Ile	Thr	Ser	Ser	Phe	Lys	Ala	Gln	Leu	Ser	Tyr	Leu	Phe	Gln	Ile
	50					55					60				
Val	Arg	Asn	Leu	Ala	Ile	Asp	His	Tyr	Arg	Lys	Gln	Ala	Leu	Glu	Lys
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Glu	Leu	Pro	Arg	Thr	Arg	Tyr	Ala	Phe	Glu	Met	Tyr	Arg	Leu	His	Gly
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Val	Pro	Gln	Lys	Asp	Ile	Ala	Lys	Glu	Leu	Gly	Val	Ser	Pro	Thr	Leu
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